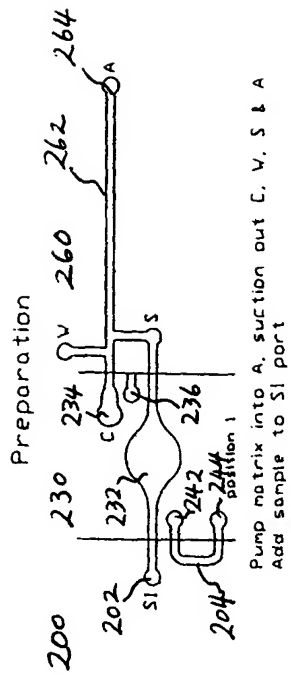
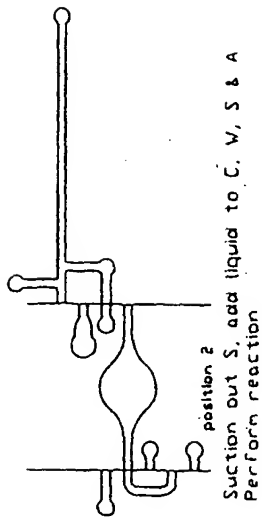


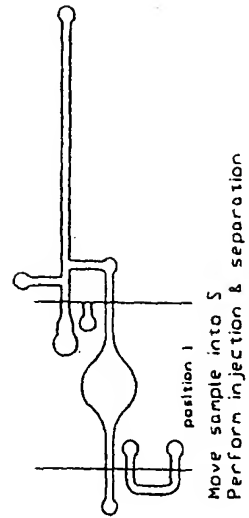
FIGURE 1



Reaction



Analysis



LEGEND

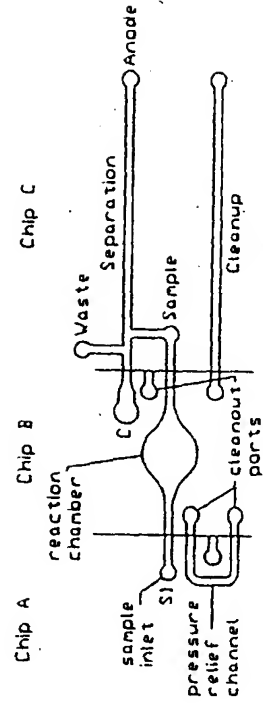


FIGURE 2

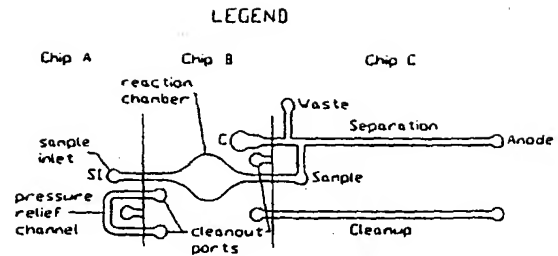
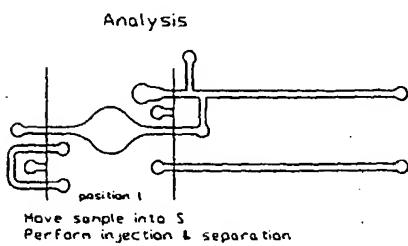
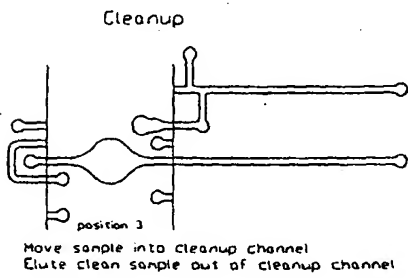
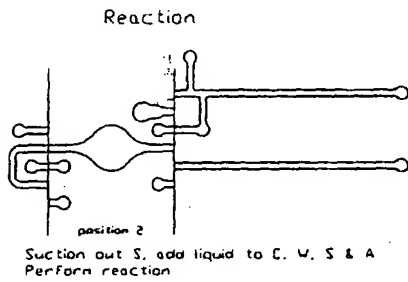
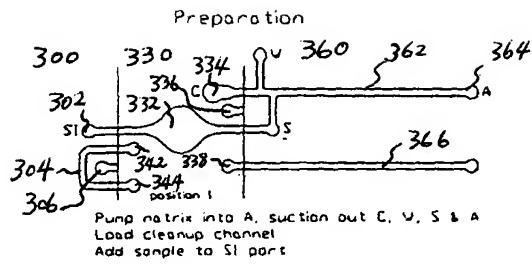


FIGURE 3

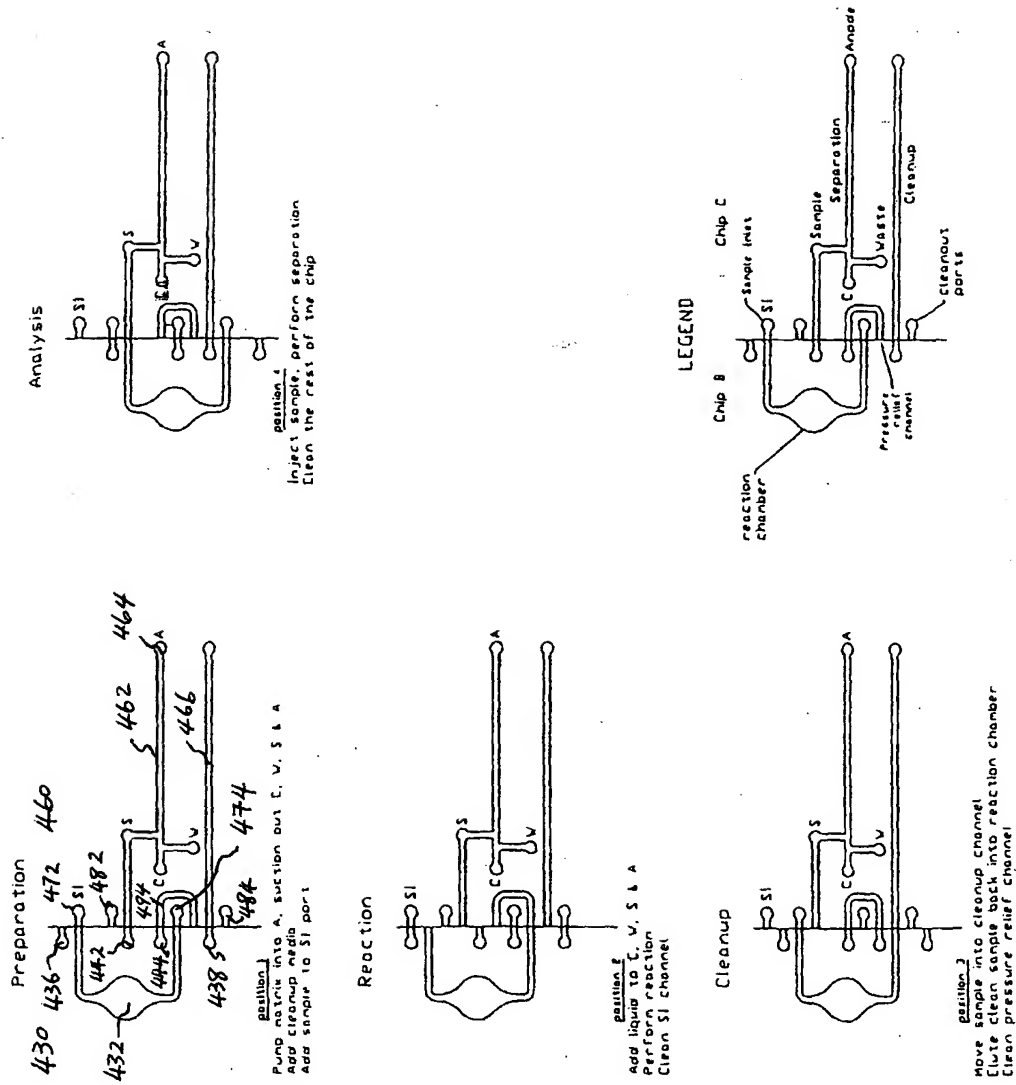
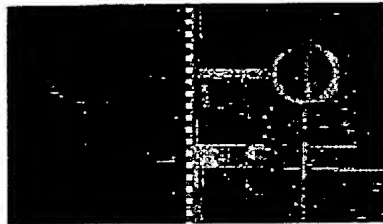
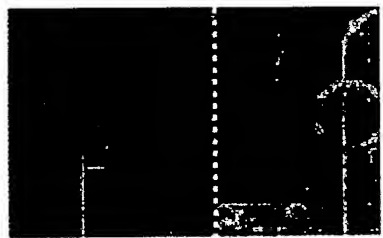


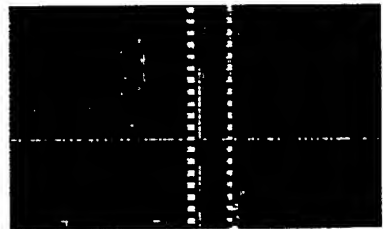
FIGURE 4



Position 1A



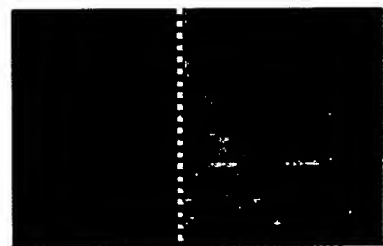
Position 1B



Position 1C



Position 1D



Position 2

FIGURE 5

Valves for microchips (Rotary)

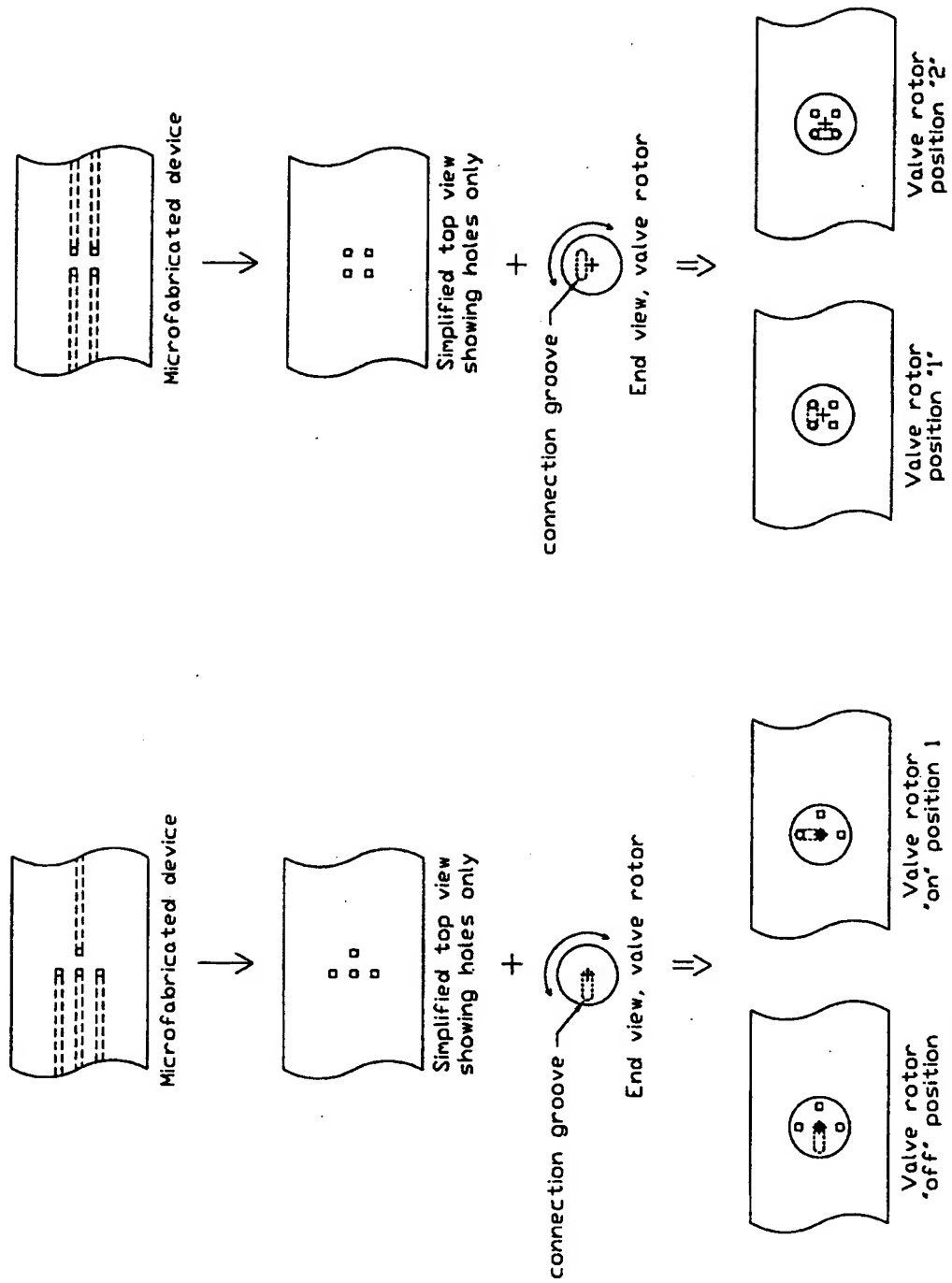
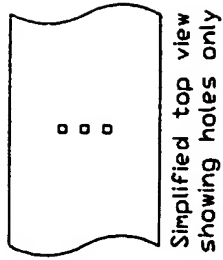
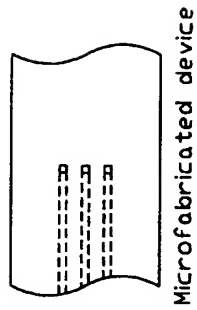


FIGURE 6B

FIGURE 6A

Valves for microchips
(Linear, top contact)



+

connection groove

End view, valve slider

A diagram showing a cross-section of a valve slider. It is a rectangular block with a semi-circular groove on its top surface. A double-headed vertical arrow is positioned to the right of the slider, indicating its vertical movement.

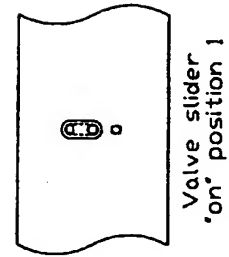
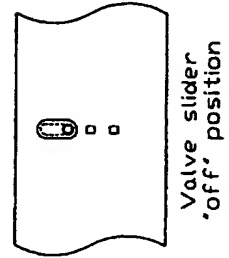
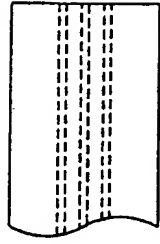


FIGURE 6C



+

connection groove

End view, valve slider

A diagram showing a cross-section of a valve slider. It is a rectangular block with a semi-circular groove on its top surface. A double-headed vertical arrow is positioned to the right of the slider, indicating its vertical movement.

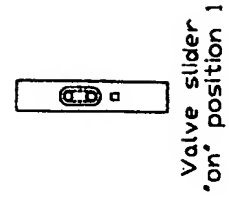
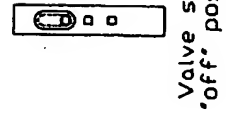


FIGURE 6D

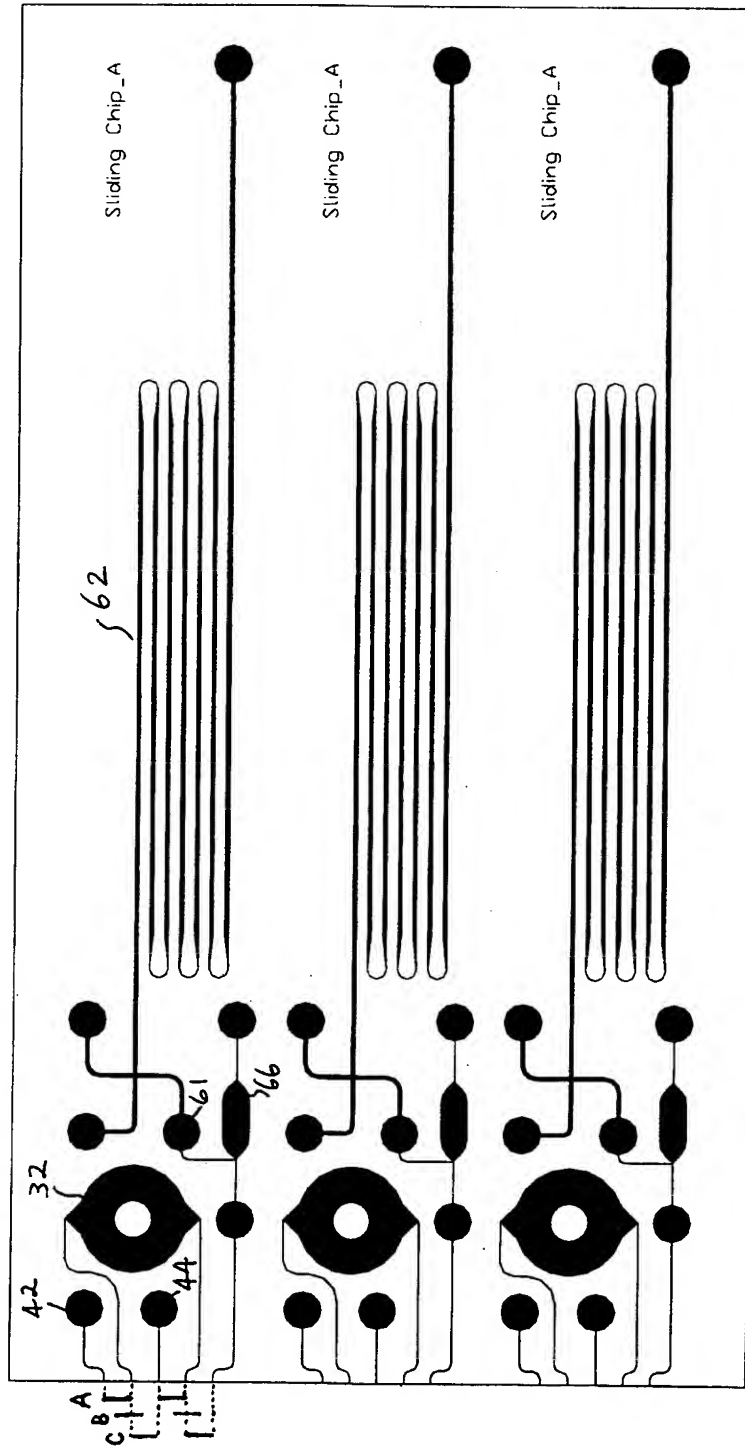


FIGURE 7A

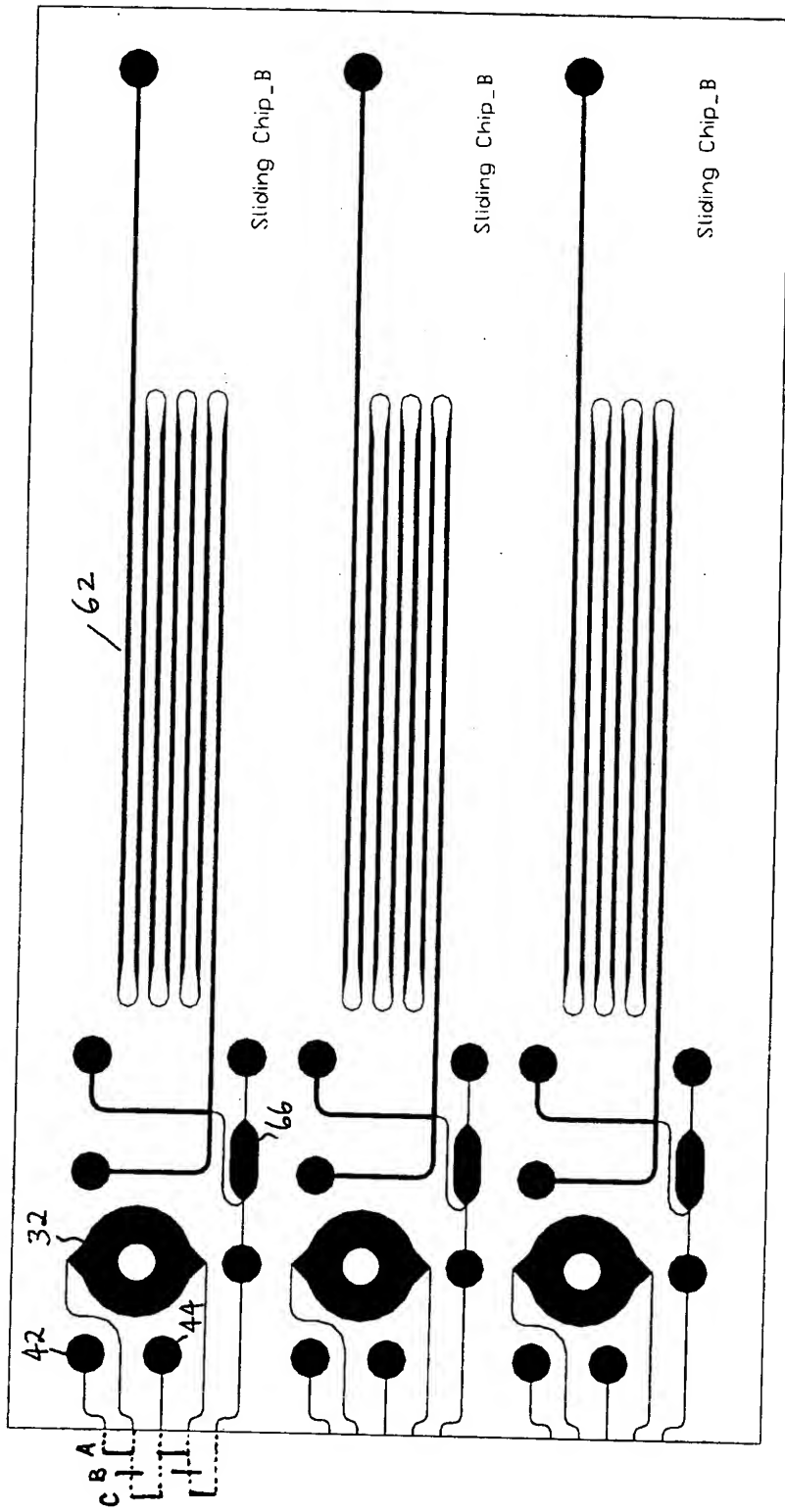


FIGURE 7B

Fabricating very small, high aspect ratio holes in glass

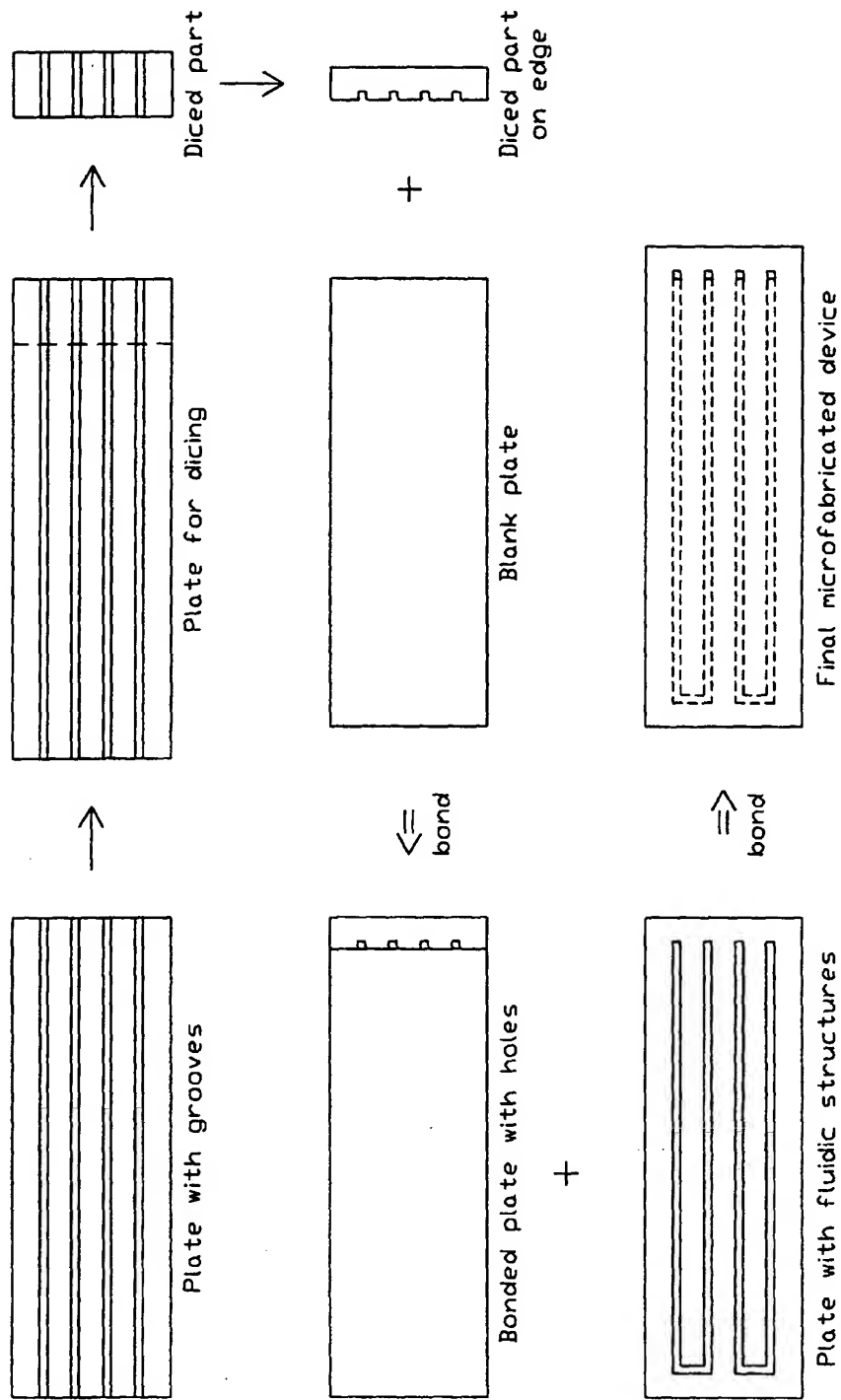


FIGURE 8